Contents to volume 302

Hypothesis

Pseudouridine in the large-subunit (23 S-like) ribosomal RNA: The site of peptidyl transfer in the ribosome? (FEBS 10966) *B.G. Lane, J. Ofengand, M.W. Gray* 1

Research Letters

Production of a unique multi-lamella structure in the nuclei of yeast expressing *Drosophila copia gag* precursor (FEBS 11004) *K. Yoshioka, A. Fujita, S. Kondo, T. Miyake, Y. Sakaki, T. Shiba* 5

Left-handed topology of super-secondary structure formed by aligned α-helix and β-hairpin (FEBS 10976) *A.V. Kajava* 8

(Model) studies on vanadate-dependent bromo/iodoperoxidase from *Ascophyllum nodosum*: VO^{2+} is not incorporated into the active site (FEBS 10978) *K. Knüttel, A. Müller, D. Rehder, H. Vilter, V. Wittneben* 11

Assembly and processing of subunit II (PsaD) precursor in the isolated photosystem-I complex (FEBS 10977) *Y. Cohen, R. Nechushtai* 15

Involvement of a non-proton pump factor (possibly Donnan-type equilibrium) in maintenance of an acidic pH in lysosomes (FEBS 10984) *Y. Moriyama, M. Maeda, M. Futai* 18

Level of expression controls modes of gating of a K^+ channel (FEBS 10973) *O. Moran, W. Schreibmayer, L. Weigl, N. Dascal, I. Lotan* 21

C-CAM (Cell-CAM 105) is a calmodulin binding protein (FEBS 10983) *I. Blikstad, T. Wikström, M. Aurivillius, B. Öbrink* 26

Cloning of a bovine voltage-gated K^+ channel gene utilising partial amino acid sequence of a dendrotoxin-binding protein from brain cortex (FEBS 10982) *P.F. Reid, O. Pongs, J.O. Dolly* 31

Up-regulation of interleukin (IL)-6 receptor gene expression in vitro and in vivo in IL-6 deprived myeloma cells (FEBS 10986) *M. Portier, D. Lees, E. Caron, M. Jourdan, J.-M. Boiron, R. Bataille, B. Klein* 35

Recognition of an antiparallel β-sheet structure of human epidermal growth factor by its receptor: Site-directed mutagenesis studies of Ala-30 and Asn-32 (FEBS 10987) *H. Koide, Y. Muto, H. Kasai, K. Hoshi, H. Takusari, K. Kohri, S. Takahashi, T. Sasaki, K.-i. Tsukumo, T. Miyake, T. Fuwa, T. Miyazawa, S. Yokoyama* 39

Basic fibroblast growth factor (bFGF) in rodent testis: Presence of bFGF mRNA and of a 30 kDa bFGF protein in pachytene spermatocytes (FEBS 10980) *G. Lahr, A. Mayerhofer, K. Seidl, S. Bucher, C. Grothe, W. Knöchel, M. Gratzl* 43

The influence of the target structure on the efficiency of alkylation of single-stranded DNA with the reactive derivatives of antisense oligonucleotides (FEBS 10981) *O.S. Fedorova, L.M. Podust, G.A. Maksakova, V.V. Gorn, D.G. Knorre* 47

Murine ST2 gene is a member of the primary response gene family induced by growth factors (FEBS 10988) *K. Yanagisawa, T. Tsukamoto, T. Takagi, S.-i. Tominaga* 51

A comparative study of the relationship between thermostability and function of phenylalanyl-tRNA synthetases from *Escherichia coli* and *Thermus thermophilus* (FEBS 10991) *E.V. Bobkova, V.G. Stepanov, O.I. Lavrik* 54

The path of a protein chain can be approximated by the conformation dictated by interpeptide ionic bridges (FEBS 10992) *V.I. Lim, C. Venclovas, N.A. Kurochkina* 57

Rapid agonist-induced beta-adrenergic receptor kinase translocation in C6 glioma cells (FEBS 10994) *I. Garcia-Higuera, F. Mayor Jr.* 61

Kinetic analysis of translocation into isolated chloroplasts of the purified ferredoxin precursor (FEBS 10996) *M. Pilon, P.J. Weisbeek, B. de Kruijff* 65

Purification of the 28.5 kDa cytosolic protein involved in the activation of NADPH oxidase from guinea pig neutrophils (FEBS 10995) *A. Someya, S. Yomogida, I. Nagaoka, K. Iwabuchi, T. Yamashita* 69

Distribution of 4a-hydroxytetrahydropterin dehydratase in rat tissues: Comparison with the aromatic amino acid hydroxylases (FEBS 10999) *M.D. Davis, S. Kaufman, S. Milstien* 73

Cellobiose oxidase of *Phanerochaete chrysosporium* enhances crystalline cellulose degradation by cellulases (FEBS 11000) *W. Bao, V. Renganathan* 77

A large conductance ion channel in the nuclear envelope of a higher plant cell (FEBS 10997) *A.J.M. Matzke, C. Behensky, T. Weiger, M.A. Matzke* 81

A Ca^{2+}-dependent protein kinase phosphorylates phosphoenolpyruvate carboxylase in maize (FEBS 11002) *N. Ogawa, S. Okumura, K. Izui* 86

Solution structure of FK506 bound to FKBP-12 (FEBS 10971) *C.A. Lepre, J.A. Thomson, J.M. Moore* 89

Design, synthesis and solution structure of a renin inhibitor: Structural constraints from NOE, and homonuclear and heteronuclear coupling constants combined with distance geometry calculations (FEBS 11005) *M.D. Reily, V. Thanabal, E.A. Lunney, J.T. Repine, C.C. Humblet, G. Wagner* 97

Hypotheses

Order and disorder in 30 nm chromatin fibers (FEBS 10979) *J.A. Subirana* 105

Mechanism of catalysis of Fe(II) oxidation by ferritin H chains (FEBS 10998) *A. Treffry, J. Hirzmann, S.J. Yewdall, P.M. Harrison* 108

The pleiotypic response to amino acid deprivation is the result of interactions between components of the glycolysis and protein synthesis pathways (FEBS 10993) *M. Rabinovitz* 113

Different sequence environments of cysteines and half cystines in proteins: Application to predict disulfide forming residues (FEBS 11024) *A. Fiser, M. Cserzö, É. Tüdös, I. Simon* 117

Research Letters

Isolation and characterization of the MHC linked β-type proteasome subunit MC13 cDNA (FEBS 11006) *S. Frentzel, U. Gräf, G.J. Hämmerling, P.-M. Kloetzel* 121

Evidence that dopachrome tautomerase is a ferrous iron-binding glycoprotein (FEBS 11001) *A.K. Chakraborty, S.J. Orlow, J.M. Pawelek* 126

The oligosaccharides in a recombinant hepatitis B virus surface antigen (HBsAg) carrying the pre-S2 region derived from yeast (FEBS 11003) *M. Kobayashi, J. Ban, T. Asano, M. Utsunomiya, S. Kusumoto, K. Nishi, K. Kato* 129

Ordered phosphorylation of a duplicated minimal recognition motif for cAMP-dependent protein kinase present in cardiac troponin I (FEBS 11023) *K. Mittmann, K. Jaquet, L.M.G. Heilmeyer Jr.* 133

Effective detergent/lipid ratios in the solubilization of phosphatidylcholine vesicles by Triton X-100 (FEBS 11031) *M.A. Partearroyo, M.A. Urbaneja, F.M. Goñi* 138

Nucleotide sequence of a cDNA encoding human tumor necrosis factor β from B lymphoblastoid cell RPMI 1788 (FEBS 11007) *N. Matsuyama, N. Okawa, Y. Tsukii, T. Endo, A. Kaji* 141

Characterization of the yeast *BMH1* gene encoding a putative protein homologous to mammalian protein kinase II activators and protein kinase C inhibitors (FEBS 11008) *G.P.H. van Heusden, T.J. Wenzel, E.L. Lagendijk, H.Y. de Steensma, J.A. van den Berg* 145

Identification and characterization of two dermorphins from skin extracts of the Amazonian frog *Phyllomedusa bicolor* (FEBS 11009) *G. Mignogna, C. Severini, M. Simmaco, L. Negri, G. Falconieri Erspamer, G. Kreil, D. Barra* 151

Oligo(2′-*O*-methyl)ribonucleotides: Effective probes for duplex DNA (FEBS 11032) *M. Shimizu, A. Konishi, Y. Shimada, H. Inoue, E. Ohtsuka* 155

Primary structure of three minor isoforms of amphioxus sarcoplasmic calcium-binding proteins (FEBS 11041) *T. Takagi, L. Valette-Talbi, J.A. Cox* 159

Determination of the sequence coding for the β subunit of the human high-affinity IgE receptor (FEBS 11010) *K. Maekawa, N. Imagawa, Y. Tanaka, S. Harada* 161

Functional expression of a plant plasma membrane transporter in *Xenopus* oocytes (FEBS 11011) *K.J. Boorer, B.G. Forde, R.A. Leigh, A.J. Miller* 166

Protein deamidase from germinating wheat grains (FEBS 11012) *I.A. Vaintraub, L.V. Kotova, R. Shaha* 169

Cloning and sequencing of the 23 kDa mouse photoreceptor cell-specific protein (FEBS 11014) *J.F. McGinnis, P.L. Stepanik, W. Baehr, I. Subbaraya, V. Lerious* 172

Fluorescence study of the nucleic acid binding site of vimentin (FEBS 11013) *M. Kooijman, M. Bloemendal, P. Traub, R. van Grondelle* 177

Effects of solubilization and vanadate/glutathione complex on inhibitor potencies against eosinophil cyclic AMP-specific phosphodiesterase (FEBS 11015) *J.E. Souness, C. Maslen, L.C. Scott* 181

The application of ^{1}H NMR chemical shift calculations to diastereotopic groups in proteins (FEBS 11016) *M.P. Williamson, T. Asakura* 185

Site-directed mutants of human myeloperoxidase: A topological approach to the heme-binding site (FEBS 11019) *A. Jacquet, V. Deleersnyder, L. Garcia-Quintana, A. Bollen, N. Moguilevsky* 189

The proteasome/multicatalytic–multifunctional proteinase: In vivo function in the ubiquitin-dependent N-end rule pathway of protein degradation in eukaryotes (FEBS 11038) *B. Richter-Ruoff, W. Heinemeyer, D.H. Wolf* 192

Interaction of mannose-6-phosphate with the hysteretic transition in glucose-6-phosphate hydrolysis in intact liver microsomes (FEBS 11020) *H. Vidal, A. Berteloot, M.-J. Larue, J.-F. St-Denis, G. van de Werve* 197

Interchain and intrachain crosslinking of actin thiols by a bifunctional thiol reagent (FEBS 10990) *H. Faulstich, D. Heintz, G. Drewes* 201

Pregnancy hormones, estrogen and progesterone, prevent HIV-1 synthesis in monocytes but not in lymphocytes (FEBS 11021) *A.S. Bourinbaiar, R. Nagorny, X. Tan* 206

Lethal oxidative damage to human immunodeficiency virus by human recombinant myeloperoxidase (FEBS 11022) *N. Moguilevsky, M. Steens, C. Thiriart, J.-P. Prieels, L. Thiry, A. Bollen* 209

Nucleotide sequence of a cDNA clone encoding a major allergenic protein in rice seeds: Homology of the deduced amino acid sequence with members of α-amylase/trypsin inhibitor family (FEBS 11026) *H. Izumi, T. Adachi, N. Fujii, T. Matsuda, R. Nakamura, K. Tanaka, A. Urisu, Y. Kurosawa* 213

Possible involvement of superoxide anion in the induction of cyanide-resistant respiration in *Hansenula anomala* (FEBS 11025) *N. Minagawa, S. Koga, M. Nakano, S. Sakajo, A. Yoshimoto* 217

Molecular cloning and nucleotide sequence analysis of a cDNA encoding the main β-neurotoxin from the venom of the South American scorpion *Tityus serrulatus* (FEBS 11029) *M.F. Martin-Eauclaire, B. Céard, A.M. Ribeiro, C.R. Diniz, H. Rochat, P.E. Bougis* 220

Phosphorylation sequences in h-caldesmon from phorbol ester-stimulated canine aortas (FEBS 11027) *L.P. Adam, C.J. Gapinski, D.R. Hathaway* 223

Separation of fibronectin from a plasma gelatinase using immobilized metal affinity chromatography (FEBS 11028) *L. Smilenov, E. Forsberg, I. Zeligman, M. Sparrman, S. Johansson* 227

Interleukin-4 stimulates collagen gene expression in human fibroblast monolayer cultures: Potential role in fibrosis (FEBS 11030) *P. Gillery, C. Fertin, J.F. Nicolas, F. Chastang, B. Kalis, J. Banchereau, F.X. Maquart* 231

TNF-mediated IL6 gene expression and cytotoxicity are coinducible in TNF-resistant L929 cells (FEBS 11034) *V. Vandevoorde, G. Haegeman, W. Fiers* 235

Truncation of recombinant vimentin by ompT: Identification of a short motif in the head domain necessary for assembly of type III intermediate filament proteins (FEBS 11035) *M. Hatzfeld, H. Dodemont, U. Plessmann, K. Weber* 239

A novel ET_A antagonist (BQ-123) inhibits endothelin-1-induced phosphoinositide breakdown and DNA synthesis in rat vascular smooth muscle cells (FEBS 11036) *S. Eguchi, Y. Hirata, M. Ihara, M. Yano, F. Marumo* 243

The haemoglobin-like protein (HMP) of *Escherichia coli* has ferrisiderophore reductase activity and its C-terminal domain shares homology with ferredoxin $NADP^+$ reductases (FEBS 11053) *S.C. Andrews, D. Shipley, J.N. Keen, J.B.C. Findlay, P.M. Harrison, J.R. Guest* 247

Crystallization of human gelsolin (FEBS 11037) *P.J. McLaughlin, J. Gooch* 253

The polypeptide chain fold in tyrosine phenol-lyase, a pyridoxal-5′-phosphate-dependent enzyme (FEBS 11040) *A.A. Antson, B.V. Strokopytov, G.N. Murshudov, M.N. Isupov, E.H. Harutyunyan, T.V. Demidkina, D.G. Vassylyev, Z. Dauter, H. Terry, K.S. Wilson* 256

Evidence of cytosolic iron release during post-ischaemic reperfusion of isolated rat hearts: Influence on spin-trapping experiments with DMPO (FEBS 11039) *F. Boucher, S. Pucheu, C. Coudray, A. Favier, J. de Leiris* 261

Identification of individual amino acids in platelet-derived growth factor that contribute to the specificity towards the β-type receptor (FEBS 11042) *M. Jaumann, D. Tatje, J. Hoppe* 265

Structural analysis of the putative regulatory region of the rat gene encoding poly(ADP-ribose) polymerase (FEBS 11043) *F. Potvin, J. Thibodeau, J.B. Kirkland, B. Dandenault, C. Duchaine, G.G. Poirier* 269

A single step purification for recombinant proteins: Characterization of a microtubule associated protein (MAP 2) fragment which associates with the type II cAMP-dependent protein kinase (FEBS 11044) *R.E. Stofko-Hahn, D.W. Carr, J.D. Scott* 274

Evaluation of the expression of the cationic peptide gene in various types of leukocytes (FEBS 11047) *I. Nagaoka, S. Yomogida, S. Nakamura, A. Someya, K. Iwabuchi, T. Yamashita* 279

Selective inhibition of membrane fusion events in echinoderm gametes and embryos by halenaquinol sulfate (FEBS 11048) *S. Ikegami, N. Kajiyama, Y. Ozaki, Y. Myotoishi, S. Miyashiro, S. Takayama, M. Kobayashi, I. Kitagawa* 284

Author Index to Volume 302 287

Contents to Volume 302 291